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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/494,278	01/30/2000	Bill J. Pope	6061 P	3224
7	590 03/12/2002			
DANIEL P. MCCCARTHY PARSONS BEHLE & LATIMER 201 SOUTH MAIN STREET, SUITE 1800			EXAMINER	
			ISABELLA, DAVID J	
P. O. BOX 45898 SALT LAKE CITY, UT 84145-0898			ART UNIT	PAPER NUMBER
SALT DAKE (5111, 61 64145 6656		3738	

DATE MAILED: 03/12/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/494,278	POPE ET AL			
		Examiner	Art Unit			
		DAVID J ISABELLA	3738			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
THE - Exte after - If the - If NC - Failu - Any I	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ti within the statutory minimum of thirty (30) da vill apply and will expire SIX (6) MONTHS fron cause the application to become ABANDONI	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).			
1)[Responsive to communication(s) filed on 09 J	l <u>anuary 2002</u> .				
2a)□	•	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
·	ion of Claims					
4)⊠	Claim(s) 1-100 is/are pending in the application.					
E) 57	4a) Of the above claim(s) <u>68-100</u> is/are withdrawn from consideration.					
-	Claim(s) 1-28 is/are allowed.					
-	6) Claim(s) 29,30,32-36,39-63,66 and 67 is/are rejected.					
	7) Claim(s) <u>31,37,38,64 and 65</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
	The specification is objected to by the Examine	r.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the	e drawing(s) be held in abeyance.	See 37 CFR 1.85(a).			
11)	The proposed drawing correction filed on	_is: a)□ approved b)□ disappr	oved by the Examiner.			
	If approved, corrected drawings are required in rep	oly to this Office action.				
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Informal	ry (PTO-413) Paper No(s) I Patent Application (PTO-152)			

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Election/Restrictions

Claims 68-100 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a non elected invention, there being no allowable generic or linking claim. Election was made without traverse in Paper No. 8. Due to the scope of claims 1-67, Examiner has removed the species requirements. Claims 1-67 will be examined.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States

Claims 56,57,66 and 67 are rejected under 35 U.S.C. 102(b) as being anticipated by Pope,et al (5,645,601).

Pope, et al discloses a prosthetic joint having first and second members with a fixation portion and a load bearing/articulation portion. The joint includes a volume of diamond on the load bearing/articulation portion.

Claims 66 and 67 see column 3.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 29-30, 32-36, 39-55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pope, et al (5,645,601 in view of Turchan et al (5,554,415). Pope, et al discloses a prosthetic joint having first and second members with a fixation portion and a load bearing/articulation portion. The joint includes a volume of diamond on the load bearing/articulation portion. Turchan, et al teaches a method for coating a substrate with PCD via sintering. Additionally, Turchan, et al provides for a transition zone and the feature of a mechanical grip. Pope, et al is silent to specific methods to achieve a PCD coating on a substrate. Pope, et al describes that the PCD layer could be bonded to the joint surfaces by any satisfactory method including different methods for different surfaces. Turchan, et al outlines various known methods to provide for a PCD layer on surgical items including sintering. Moreover, Turchan, et al describes the provision of a gradient between the substrate and the PCD and the use of mechanical grip on the substrate to provide more effective bonding of the PCD (see columns 23 and 24). Pope, et al defines the broad concept of cooperating surfaces of a prosthetic joint being provided with a coating of PCD. This coating provides excellent tribiological

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properties to the prosthesis. Pope, et al fails to disclose specific methods for providing

the coating but states that those skilled in the art could use any known methods. Turchan, et al provides the specifics to the arrays of methods available to those skilled in the art including sintering. In light of the teachings of Turchan, et al, the joint/coating combination of Pope, et al would have been obvious to one of ordinary skill in the art based upon engineering considerations. The specifics to the chemical bonds, mechanical grip, topographical features, stress field, Ra value, polishing, specific orthopedic structure for bone applications, materials and substrate layers are fully disclosed in the patent to Turchan, et al.

Claims 58-63 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pope, et al (5,645,601) further in view of Turchan et al (5,554,415).

Pope, et al discloses a prosthetic joint having first and second members with a fixation portion and a load bearing/articulation portion. The joint includes a volume of diamond on the load bearing/articulation portion. Turchan, et al teaches a method for coating a substrate with PCD via sintering. Additionally, Turchan, et al provides for a transition zone and the feature of a mechanical grip. Pope, et al is silent to specific methods to achieve a PCD coating on a substrate. In fact, column 4, lines 1+, Pope, et al describes that the PCD layer could be bonded to the joint surfaces by any satisfactory method including different methods for different surfaces. Turchan, et al outlines various known methods to provide for a PCD layer on surgical items including sintering. Moreover, Turchan, et al describes the provision of a gradient between the substrate

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and the PCD and the use of mechanical grip on the substrate to provide more effective

bonding of the PCD (see columns 23 and 24). Pope, et al defines the broad concept of

cooperating surfaces of a prosthetic joint being provided with a coating of PCD. This

coating provides excellent tribiological properties to the prosthesis. Pope, et al fails to

disclose specific methods for providing the coating but states that those skilled in the art

could use any known methods. Turchan, et al provides the specifics to the arrays of

methods available to those skilled in the art including sintering. In light of the teachings

of Turchan, et al, the joint/coating combination of Pope, et al would have been obvious

to one of ordinary skill in the art based upon engineering considerations.

Allowable Subject Matter

Claims 31,37,38,64,65 are objected to as being dependent upon a rejected base

claim, but would be allowable if rewritten in independent form including all of the

limitations of the base claim and any intervening claims.

Claims 1-28 are allowed.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAVID J ISABELLA whose telephone number is 703-308-3060. The examiner can normally be reached on MONDAY-FRIDAY.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, CORRINE MCDERMOTT can be reached on 703-308-2111. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3579 for regular communications and 703-305-3580 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0858.

DAVID'J ISABELLA Primary Examiner Art Unit 3738

dji March 8, 2002

Attachment for PTO-948 (Rev. 03/01, or earlier) 6/18/01

The below text replaces the pre-printed text under the heading, "Information on How to Effect Drawing Changes," on the back of the PTO-948 (Rev. 03/01, or earlier) form.

INFORMATION ON HOW TO EFFECT DRAWING CHANGES

1. Correction of Informalities -- 37 CFR 1.85

New corrected drawings must be filed with the changes incorporated therein Identifying indicia, if provided, should include the title of the invention inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings MUST be filed within the THREE MONTH shortened statutory period set for reply in the Notice of Allowability. Extensions of time may NOT be obtained under the provisions of 37 CFR 1 136(a) or (b) for filing the corrected drawings after the mailing of a Notice of Allowability. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

2. Corrections other than Informalities Noted by Draftsperson on form PTO-948.

All changes to the drawings, other than informalities noted by the Drattsperson, MUST be made in the same manner as above except that, normally, a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings MUST be approved by the examiner before the application will be allowed. No changes will be permitted to be made other than correction of informalities, unless the examiner has approved the proposed changes

Timing of Corrections

Applicant is required to submit the drawing corrections within the time period set in the attached Office communication. See 37 CFR 1.85(a)

Failure to take corrective action within the set period will result in ABANDONMENT of the application.